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985401/23401 PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of Vladimir Voronkov et al. Serial No. 09/972,608 Filed October 5, 2001 Confirmation No. 4591

Art Unit 2812

For METHOD FOR THE PRODUCTION OF LOW DEFECT DENSITY SILICON

January 9, 2002

TO THE COMMISSIONER OF PATENTS AND TRADEMARKS, SIR:

## INFORMATION DISCLOSURE STATEMENT

In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and in compliance with the duty of disclosure set forth in 37 C.F.R. 1.56, applicants submit copies of the references listed on the attached PTO/SB/08A for consideration by the Patent and Trademark Office in the above-entitled application and to be made of record therein.

The Commissioner is hereby authorized to charge any fees incurred regarding this Information Disclosure Statement to Account No. 19-1345 if an Office Action was issued prior to the date of mailing of this Statement.

Please note that Applicants make no representation as to the accuracy or completeness of the translations submitted herewith.

Respectfully submitted,

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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation

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|-----------------------|------------------------------------|---------|---|---|----------|--|--------|--------------------|-----|
|                       |                                    |         |   | j   |          | Application Number                                     | 09     | /972,608           |     |
|                       |                                    |         | HSOLOSI   |   |          | Filing Date  | Oc     | tober 5, 2001      |     |
| ST                    | ATEME                              | NT BY   | APPLICA   | ANT   | Ī        | Confirmation Number                                    | 45     | 91                 |     |
| (use                  | as man                             | y sheet | s as nece   | essary)                                       | -        | First Named Inventor                                   | Vla    | adimir Voronkov et | al. |
|                       |                                    |         |   |   | -<br> -  | Group Art Unit   | 28     | 12                 |     |
|                       |                                    |         |   |   | <b>├</b> | Examiner Name  | Un     | known              |     |
| Sheet                 | 2                                  |         | of  | <del></del> 8                                 | -+       | Attorney Docket No.                                    | +      | 5401/23401         |     |
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| Examiner<br>Initials* | Cite No.1 Office Number4  K C C (i |         | ent<br>Kind<br>Code <sup>2</sup><br>(if<br>known) | Name of Patentee or Applica<br>Cited Document | nt of    | Date of Publication of<br>Cited Document<br>MM-DD-YYYY | Τ'     |                    |     |
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Examiner

Signature

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Considered

<sup>&</sup>lt;sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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|        | JAN 0 9 2002            | $\omega_i$ |            | Application Number   | 09/972,608               |
| IN     | IF OR MATION TATEMENT B | (DISC      | CLOSURE    | Filing Date          | October 5, 2001          |
| 5      | I A I EIMENT D          | TAP        | PLICANI    | Confirmation Number  | 4591                     |
| (use   | e as many shee          | ets as     | necessary) | First Named Inventor | Vladimir Voronkov et al. |
|        |                         |            |            | Group Art Unit       | 2812                     |
|        |                         |            |            | Examiner Name        | Unknown                  |
| Sheet  | 3                       | of         | 8          | Attorney Docket No.  | 985401/23401             |

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|    | 30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45 | 30 EP 31 JP 32 JP 33 JP 34 JP 35 JP 36 JP 37 JP 38 JP 39 JP 40 JP 41 JP 42 PCT 43 PCT 44 PCT 45 PCT | 30 EP 0 962 557 31 JP Hei 2-180789 32 JP Hei 3-93700 33 JP Hei 4-108682 34 JP 8-330316 (Pub. Hei 07-158458) 35 JP HO 8-268794 36 JP HO 9-202690 37 JP 11-157995 38 JP 11-180800 39 JP 11-189495 40 JP 11-199386 41 JP 11-199387 42 PCT WO 98/45507 43 PCT WO 98/45508 44 PCT WO 98/45509 45 PCT WO 98/45510 | 30 EP 0 962 557 A1  31 JP Hei 2-180789  32 JP Hei 3-93700  33 JP Hei 4-108682  34 JP 8-330316 (Pub. Hei 07-158458)  35 JP HO 8-268794  36 JP HO 9-202690  37 JP 11-157995 A  38 JP 11-180800 A  39 JP 11-189495 A  40 JP 11-199386 A  41 JP 11-199387 A  42 PCT WO 98/45507  43 PCT WO 98/45508  44 PCT WO 98/45509  45 PCT WO 98/45510 | 30         EP         0 962 557         A1         Shin-Etsu Handotai Company Ltd.           31         JP         Hei 2-180789         Kawasaki Steel Corp.           32         JP         Hei 3-93700         Nippon Steel Corp.           33         JP         Hei 4-108682         Fuji Electric Co., Ltd.           34         JP         8-330316 (Pub. Hei 07-158458)         Sumitomo Sitix Corp.           35         JP         HO 8-268794         Sumitomo Sitix Corp.           36         JP         HO 9-202690         Shin-Etsu Semiconductor K.K.           37         JP         11-157995         A         Sumitomo Sitix Corp.           38         JP         11-180800         A         Shin-Etsu Handotai Company Ltd.           39         JP         11-189495         A         Sumitomo Metal Ind. Ltd.           40         JP         11-199386         A         Shin-Etsu Handotai Company Ltd.           41         JP         11-199387         A         Shin-Etsu Handotai Company Ltd.           42         PCT         WO 98/45507         MEMC Electronic Materials Inc.           43         PCT         WO 98/45509         MEMC Electronic Materials Inc.           45         PCT         WO 98/45510 | 30         EP         0 962 557         A1         Shin-Etsu Handotai Company Ltd.         12/08/1999           31         JP         Hei 2-180789         Kawasaki Steel Corp.         07/13/1990           32         JP         Hei 3-93700         Nippon Steel Corp.         04/18/1991           33         JP         Hei 4-108682         Fuji Electric Co., Ltd.         04/09/1992           34         JP         8-330316 (Pub. Hei 07-158458)         Sumitomo Sitix Corp.         12/13/1996           35         JP         HO 8-268794         Sumitomo Sitix Corp.         10/15/1996           36         JP         HO 9-202690         Shin-Etsu Semiconductor K.K.         08/05/1997           37         JP         11-157995         A         Sumitomo Sitix Corp.         06/15/1999           38         JP         11-180800         A         Shin-Etsu Handotai Company Ltd.         07/06/1999           39         JP         11-189495         A         Sumitomo Metal Ind. Ltd.         07/13/1999           40         JP         11-199386         A         Shin-Etsu Handotai Company Ltd.         07/27/1999           41         JP         11-199387         A         Shin-Etsu Handotai Company Ltd.         07/27/1999 |

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| PTO/SB/                                       | 08A    | JAN 0 8 | יי<br>א מחמ       |            |    | Сотр                                | Compl te if Known |                                       |  |  |
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|   | PE     |         | ر عسد<br>د<br>کند | <u>.</u>   |    | Application Number                  | 09                | /972,608                              |  |  |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT |        |         |                   |            |    | Filing Date                         | 00                | October 5, 2001                       |  |  |
| 31  | IAIEWI | ENI B   | T AP              | PLICANT    |    | Confirmation Number                 | 45                | 91                                    |  |  |
| (use  | as mar | ny shee | ts as             | necessary) | 1  | First Named Inventor Vladimir Voron |                   | adimir Voronkov et al                 |  |  |
|   |        |         |                   |            |    | Group Art Unit                      | 28                | 12                                    |  |  |
|   |        |         |                   |            |    | Examiner Name                       | Ur                | nknown                                |  |  |
| Sheet   | 4      |         | of                | 8          |    | Attorney Docket No.                 | 98                | 5401/23401                            |  |  |
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|  |  | ОТЬ  | IER ART - NO | N PATE | NT LITERATURE DOCUME             | NTS        | _ |  |  |
|  | 51   | UK   | GB 2 182 262 | Α      | Sony Corp.                       | 05/13/1987 |   |  |  |
|  | 50   | UK   | GB 2 137 524 | Α      | Hitachi Ltd. (Japan)             | 10/10/1984 |   |  |  |
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| Examiner  | Date       |  |
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| Signature | Considered |  |

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| PTO/SB | /08A                 | <del>J</del> F      | 0          | Compl te if Known    |                          |  |  |
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|        |                      | JAN U               | 2002 8     | Application Number   | 09/972,608               |  |  |
| IN     | FORMATION TATEMENT B | DISC                | LOSÜRE     | Filing Date          | October 5, 2001          |  |  |
| 8      | IAIEMENIB            | Y 74 <del>1</del> * | PEICANI    | Confirmation Number  | 4591                     |  |  |
| (use   | e as many shee       | ets as              | necessary) | First Named Inventor | Vladimir Voronkov et al. |  |  |
|        |                      |                     |            | Group Art Unit       | 2812                     |  |  |
|        |                      |                     |            | Examiner Name        | Unknown                  |  |  |
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<sup>&</sup>lt;sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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|        |             |        | i.         | Application Number   | 09/972,608               |
| IN     | IFORMATION  | DISC   | ÉOSURE     | Filing Date          | October 5, 2001          |
|        | IAIEWENIE   | ) AP   | PLICANI    | Confirmation Number  | 4591                     |
| (use   | as many she | ets as | necessary) | First Named Inventor | Vladimir Voronkov et al. |
|        |             |        |            | Group Art Unit       | 2812                     |
|        |             |        |            | Examiner Name        | Unknown                  |
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| )<br>  | IAIEWENTE              |        | PLICANI     | Confirmation Number  | 4591                     |
| (use   | e as many shee         | ets as | necessary)  | First Named Inventor | Vladimir Voronkov et al. |
|        |                        |        |             | Group Art Unit       | 2812                     |
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